

Geometry
Drawing Conclusions #2

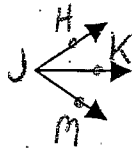
Name KEY

For each of the following "given" statements, state a reasonable conclusion. Then, give a reason for your conclusion.

- A.) 1. $\angle 1$ and $\angle 2$ are supplementary
2. $m\angle 1 + m\angle 2 = 180^\circ$

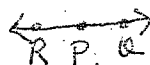
2. DEF. OF SUPPLEMENTARY ANGLES

- B.) 1. $\angle HJK \cong \angle KJM$
2. $m\angle HJK = m\angle KJM$



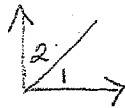
2. DEF. OF CONGRUENT ANGLES

- C.) 1. \overrightarrow{PR} and \overrightarrow{PQ} are opposite rays
2. $\overline{RP} + \overline{PQ} = \overline{RQ}$



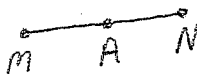
2. SEGMENT ADDITION POSTULATE

- D.) 1. $m\angle 1 + m\angle 2 = 90$
2. $\angle 1$ & $\angle 2$ are Complementary angles



2. DEF. OF COMPLEMENTARY ANGLES

- E.) 1. A is the midpoint of \overline{MN}
2. $\overline{MA} \cong \overline{AN}$



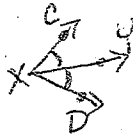
2. DEF. OF MIDPOINT

- F.) 1. $\angle 1$ and $\angle 2$ are a linear pair
2. $\angle 1$ & $\angle 2$ are supplementary angles



2. LINEAR PAIR POSTULATE

- G.) 1. \overline{XY} bisects $\angle CXD$
2. $\angle CXY \cong \angle YXD$



2. DEF. OF ANGLE BISECTOR

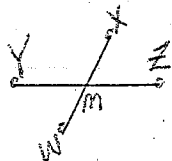
- H.) 1. $m\angle 1 = m\angle 2$
2. $\angle 1 \cong \angle 2$

2. DEF. OF CONGRUENT ANGLES

- I.) 1. $\angle 1$ and $\angle 2$ are complementary
2. $m\angle 1 + m\angle 2 = 90^\circ$

2. DEF. OF COMPLEMENTARY ANGLES

- J.) 1. \overline{WX} bisects \overline{YZ} at M
2. $\overline{YM} \cong \overline{MZ}$



2. DEF. OF MIDPOINT

- K.) 1. $\angle E \cong \angle F$
2. $m\angle E = m\angle F$

2. DEF. OF CONGRUENT ANGLES